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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/598,075	06/11/2008	Theodore D. Ciolkosz	W-360-02	9812	
	7590 02/02/201 logies Corporation	1	EXAMINER		
34 MAPLE STREET - LG			FRANK, RODNEY T		
MILFORD, MA	A U1/3/		ART UNIT	PAPER NUMBER	
			2856		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/598,075	CIOLKOSZ ET AL.	
Office Action Summary	Examiner	Art Unit	
	RODNEY T. FRANK	2856	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with	the correspondence address -	-
A SHORTENED STATUTORY PERIOD FOR REP WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the main earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION OF THIS COMMUNICA	ATION. by be timely filed S from the mailing date of this communication NOONED (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on <u>06</u> 2a) ☐ This action is FINAL . 2b) ☐ The solution of the condition of the closed in accordance with the practice under	nis action is non-final. vance except for formal matter	•	s is
Disposition of Claims			
4) ☐ Claim(s) 1-37 is/are pending in the application 4a) Of the above claim(s) 37 is/are withdrawr 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-7,9-15 and 26-30 is/are rejected. 7) ☐ Claim(s) 8,16-25 and 31-36 is/are objected to 8) ☐ Claim(s) are subject to restriction and	n from consideration.		
Application Papers			
9) ☐ The specification is objected to by the Examin 10) ☑ The drawing(s) filed on 01 June 2008 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the left	a) accepted or b) object ne drawing(s) be held in abeyance ection is required if the drawing(s	e. See 37 CFR 1.85(a). is objected to. See 37 CFR 1.12	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the prapplication from the International Bure * See the attached detailed Office action for a list	ints have been received. Ints have been received in Appliority documents have been re Peau (PCT Rule 17.2(a)).	olication No eceived in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Double Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/	nmary (PTO-413) Mail Date	
 Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>08/17/2006</u>. 	5) Notice of Info	rmal Patent Application	

Application/Control Number: 10/598,075 Page 2

Art Unit: 2856

DETAILED ACTION

Election/Restrictions

1. Claim 37, withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected method, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 06 December 2010.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Markelov (U.S. patent Number 5,792,423). Markelov discloses a headspace autosampling apparatus (92) for generating and delivering gaseous samples to a gas chromatograph or other instrument includes a plurality of vials (98) in a carousel (150). The vials are delivered one at a time from the carousel through a vial delivery mechanism (160) to a heated zone (146) wherein the substances (94, 96) to be analyzed reach equilibrium with the headspace (100, 102) above the samples in the vials, preferably using the full evaporation technique (FET). The vials are generally cylindrical and extend horizontally to facilitate attainment of equilibrium rapidly upon heating. The vials are also preferably rotated about their longitudinal axis prior to sampling so as to achieve a film effect on the interior walls of the vials which further aids in attainment of equilibrium. The apparatus is operative to first pressurize the headspace in the vial with an inert gas, and then to place said headspace in fluid communication with the inlet of a gas

chromatograph wherein analytes in the headspace volume are analyzed to determine the composition thereof (Please see the abstract).

4. With respect to claim 1, Markelov discloses and illustrates a device for monitoring pressure in a fluid system comprising a pressure monitor (pressure sensor 126 or pressure gauge 134 from figure 3) for placement in communication with a fluid in said fluid system, said pressure monitor generating a signal representative of a measured pressure; and a control means for receiving said signal representative of said measured pressure and comparing said measured pressure to a reference (see column 13, lines 5 through 28).

With respect to claim 2, the device wherein said pressure monitor and said control means are placed in communication with a fluid system is illustrated in figure 3.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 5-7, 9-14, and 26-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Markelov.

With respect to claim 5, the device wherein said fluid system comprises at least one fluid path section (116) having a first end and a second end; at least one fluid connection means having a plurality of ports (6-port valve 112) for interconnection and responsive to a signal to assume a first position wherein fluid flows between at least two of said ports and responsive to a signal to assume a second position in which fluid does not flow between any of said plurality of

Art Unit: 2856

ports (as illustrated, the port would communicate with at least 2 ports (ports 128, 110, and 140). However, as the valve rotates, it would be in another position in which no ports are connected until the port is realigned into a third position in which the ports are again aligned to allow flow of fluid.), at least one port (128) connected to said first end for forming a fluid system configuration; and a controllable pressure source (118) connected to said second end and responsive to a pressure command signal to create a source pressure on fluid in said fluid system. While the reference does not explicitly disclose the signals from the controller to be a connect command or disconnect command signal, one of ordinary skill in the art would recognize that such signals that cause either flow or a stop of flow are used to rotate the valve and would thus serve the same/similar purpose/function even though not given the same exact name.

With respect to claim 6, the device wherein said at least one fluid connection means has at least one first port and a second port, said at least one first port connected to a first fluid path section and said second port connected to a second fluid path section, as shown in figure 3.

With respect to claim 7, the device wherein said control means is a source of said pressure command signal, is disclosed and illustrated in figure 3 as the controller issues said command signal.

With respect to claims 8 and 11, while there is not specific disclosure of a connect or disconnect command signal, the controller of the device is the source for all command signals and thus would issue all signals for controlling and commanding the device, including operation of flow and thus connect or disconnect signals are considered inherently issued form the controller.

With respect to claim 10, the device wherein said pressure monitor is disposed in one of said at least one fluid path sections, is illustrated in figure 3.

Application/Control Number: 10/598,075

path, one to the other, thus creating a first close fluid system.

Art Unit: 2856

With respect to claim 11, the controller of the device is the source for all command signals and thus would issue all signals for controlling and commanding the device, including operation of flow and thus connect or disconnect signals are considered inherently issued form the controller. The multi port valve serves as to connect various sections of the fluid

Page 5

With respect to claim 12, the device indicating a leak is present based upon the comparison of pressures is disclosed in column10, line 27-36.

With respect to claim 13, a multiport valve is disclosed in figure 3, as item 112.

With respect to claim 14, the claim describes a flow path of the system. This flow path of the system is shown/disclosed in figure 3, and thus the claim limitation describing such a system are deemed to be disclosed in the reference. The multi port valve serves as to connect various sections of the fluid path, one to the other. Column 13, lines 5 through 27 disclose the comparison of a pressure signal to a pressure previously obtained.

7. With respect to claim 26, since the claim is disclosing a method of operation of an apparatus, said apparatus disclosed in respect to claim 1, then the method of operating the device must be disclosed in order for one of ordinary skill in the art to use said device.

Therefore, as disclosed in claim 1, a method comprising providing a device comprising a pressure monitor (pressure sensor 126 or pressure gauge 134 from figure 3) for placement in communication with a fluid in said fluid system, said pressure monitor generating a signal representative of a measured pressure; and a control means for receiving said signal representative of said measured pressure and comparing said measured pressure to a reference (see column 13, lines 5 through 28). Placing a pressure monitor in fluid communication with at least one fluid section (see any of pressure monitors 122, 134, or 126). While not explicitly disclosed as generating a pressure command to generate pressure in the

fluid path, one of ordinary skill in the art would understand that the pressure regulator(1200 would work in conjunction with the pressure source (18) to generate pressure in the system. Therefore, the source and regulator would require command and monitoring in order to determine when the pressure is required as well as to "maintain" pressure at a regulated amount. The device identifying errors/faults is disclosed in column 10, lines 26 through 35 as a leak would be an error in the fluid system.

With respect to claim 27, while there is not specific disclosure of a connect or disconnect command signal, the controller of the device is the source for all command signals and thus would issue all signals for controlling and commanding the device, including operation of flow and thus connect or disconnect signals are considered inherently issued form the controller.

With respect to claim 28, a multiport valve is disclosed in figure 3, as item 112.

With respect to claim 29, the claim describes a flow path of the system. This flow path of the system is shown/disclosed in figure 3, and thus the claim limitation describing such a system are deemed to be disclosed in the reference. The multi port valve serves as to connect various sections of the fluid path, one to the other. Column 13, lines 5 through 27 disclose the comparison of a pressure signal to a pressure previously obtained.

With respect to claim 30, the device indicating a leak is present based upon the comparison of pressures is disclosed in column10, line 27-36.

- 8. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tatsumi (Japanese Patent No. HEI 10 [1998] -132796, cited by the applicant).
- 9. With respect to claim 1, Tatsumi discloses in paragraph 0002, and illustrates in figure 1 and 2, a device for monitoring pressure in a fluid system comprising a pressure monitor (pressure sensor 6) for, said pressure monitor generating a signal representative of a measured

pressure; and a control means for receiving said signal representative of said measured pressure and comparing said measured pressure to a reference (pressure monitoring part 12). While the reference does show the pressure sensor to be located either a part of or attached to the pump, the measurement of the pressure sensor is still in communication with the fluid system as the pump is in communication with the fluid system and any measurement obtained from the pump would be considered a direct representation of the fluid pumped through said system.

With respect to claim 2, the device wherein said pressure monitor (6) and said control means (12) are placed in communication with a fluid system is illustrated in figures 1 and 2.

With respect to claims 3 and 4, paragraph 0002 discloses that the device is used with a liquid chromatograph with an auto injector.

Allowable Subject Matter

10. Claims 8, 16-22, 23-25, and 31-36 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

11. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The examiner has cited references deemed relevant to the general state of the art of the present invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RODNEY T. FRANK whose telephone number is (571)272-2193. The examiner can normally be reached on M-F 9-5:30 p.m. EST.

Application/Control Number: 10/598,075 Page 8

Art Unit: 2856

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron E. Williams can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Hezron Williams/ Supervisory Patent Examiner, Art Unit 2856

/R. T. F./ Examiner, Art Unit 2856 February 1, 2011